ANA 515 Assignment 2

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Section 1: Description of the Data The data is measured the percentage of the people that used a drug in the age group and it also measures the frequency of drug the drug usage by using the median number of times a user in an age group used drugs in the past 12 months. By using this data, I am hoping to discover the Class A and B drug use percentage and frequency in 3 different age groups (teen, adult and senior). Class A substances: Heroin. We are using “drug\_use\_by\_age” data that is in delimited format.

#Section 4: Characteristics of the data  
teen\_heroin <- round(mean(teen$`heroin-use`), digits = 2)  
adult\_heroin <- round(mean(adult$`heroin-use`), digits = 2)  
senior\_heroin <- round(mean(senior$`heroin-use`),digits = 2)  
  
n\_teen <- format((sum(teen['n'])), scientific = F, digits = 5)  
n\_adult <- format((sum(adult['n'])), scientific = F, digits = 5)  
n\_senior <- sum(senior['n'])

We have data about Heroin usage on 3 different age groups. For teen, age between 12-19, out of 22091, about 0.19 percent in the age group use Heroin in the past 12 months. For adult, age between 20-49, out of 26806, about 0.63 percent in the age group use Heroin in the past 12 months. For senior, age 49+, out of 6371, about 0.05 percent in the age group use Heroin in the past 12 months.

| Column Name | Description |
| --- | --- |
| age | The age group |
| n | Number of people |
| heroin-use | Percent heroin usage in the past 12 months |
| heroin-frequency | Median number of times people used heroin |

#Section 5: Summary Statistics  
sub\_heroin <- drug\_use$`heroin-use`  
summary\_heroin <- summary(sub\_heroin)  
print (summary\_heroin)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0000 0.1000 0.2000 0.3529 0.6000 1.1000